INDEX TO VOLUME XLVII

SUBJECTS

PAGE

Gamma Argus, Changes in the Spectrum of the Wolf-Rayet Star. *C. D. Perrine* 52

Bismuth Line λ 4722, Structure of the. *Lester Aronberg* . . . 96

Boss 46, Orbit of the Spectroscopic Binary. *Walter S. Adams* and *Gustaf Strömberg* 329

42 Capricorni, On the Orbit of the Spectroscopic Binary. *Joseph Lunt* 134

SU Cassiopeiae, Note on the Cepheid Variable. *Walter S. Adams* and *Harlow Shapley* 46

Cepheid Variable SU Cassiopeiae, Note on the. *Walter S. Adams* and *Harlow Shapley* 46

32 θ_2 Cygni, Orbit of the Spectroscopic Binary. *J. B. Cannon* . . 193

Distance-Velocity Equation in Stellar Motions, On the Cause of the. *C. D. Perrine* 179

Eclipse, Desirability of Observations of the Solar Rotation at the Times of. *Ralph E. DeLury* 199

Exposure-Time on Retinal Threshold, The Effect of Stimulus and. *Prentice Reeves* 141

Field-Strength with Level in the Solar Atmosphere, Apparent Variation of. The General Magnetic Field of the Sun. *G. E. Hale, F. H. Seares, A. van Maanen,* and *F. Ellerman* 206

Helium Stars between Galactic Longitudes 150° and 216°, On Parallaxes and Motion of the Brighter Galactic. *J. C. Kapteyn* 104, 146, 255

Lead, Note on the Spectrum of the Isotopes of. *Lester Aronberg* . 96

Magnetic Field of the Sun, The General. Apparent Variation of Field-Strength with Level in the Solar Atmosphere. *G. E. Hale, F. H. Seares, A. van Maanen,* and *F. Ellerman* . . 206

Magnitude, Radial Velocity and Absolute. Comments on Professor Perrine's Article. *Walter S. Adams* and *Gustaf Strömberg* . 189

Magnitudes of the Stars in the Pleiades, Photo-visual. *Harriet McWilliams Parsons* 38

Magnitudes of Stars of Late Spectral Types, Determination of the Solar Motion and the Stream-Motion from Radial Velocities and Absolute. *Gustaf Strömberg* 7

Mirrors, Photography as an Aid in Testing Knife-Edge Shadows. *Russell W. Porter* 324

PAGE

Motions, On the Cause of the Distance-Velocity Equation in Stellar. *C. D. Perrine* 179
Observatory of Poulkova. *Edwin B. Frost* 139
Optical Surfaces, On the Correction of. *A. A. Michelson* . . . 283
Orbit of the Spectroscopic Binary Alpha Phoenicis. *Joseph Lunt* . 196
Orbit of the Spectroscopic Binary Boss 46. *Walter S. Adams* and *Gustaf Strömberg* 329
Orbit of the Spectroscopic Binary 42 Capricorni. *Joseph Lunt* . 134
Orbit of the Spectroscopic Binary 32 θ_2 Cygni. *J. B. Cannon* . . 193
Parallaxes and Motion of the Brighter Galactic Helium Stars between Galactic Longitudes 150° and 216°. *J. C. Kapteyn* . . 104, 146, 255
Perrine's Article, Comments on Professor. Radial Velocity and Absolute Magnitude. *Walter S. Adams* and *Gustaf Strömberg* 189
Alpha Phoenicis, Orbit of the Spectroscopic Binary. *Joseph Lunt* . 196
Photography as an Aid in Testing Mirrors. Knife-Edge Shadows. *Russell W. Porter* 324
Photography of the Solar Spectrum from 6800 A to 9600 A. *W. F. Meggers* 1
Photo-visual Magnitudes of the Stars in the Pleiades. *Harriet McWilliams Parsons* 38
Pleiades but Not Belonging to the Physical System, Stars in the Group of the. *J. A. Parkhurst* 51
Pleiades, Photo-visual Magnitudes of the Stars in the. *Harriet McWilliams Parsons* 38
Poulkova, The Observatory of. *Edwin B. Frost* 139
Prisms Producing Constant Deviation by Two Refractions and One Internal Reflection, Generalization of the Problem of the Rotation of. *Horace Scudder Uhler* 65
Publications Received 57
Radial Velocities and Absolute Magnitudes of Stars of Late Spectral Types, Determination of the Solar Motion and the Stream-Motion from. *Gustaf Strömberg* 7
Radial Velocities of 60 Southern Stars. *Joseph Lunt* 201
Radiation in the Blue End of the Visible Spectrum, The Visibility of. *L. W. Hartman* 83
Reprints, Notice Concerning 55
Review:
Helmick, Paul S. *Table of Log_{10} $\sec^2 \theta$ for Determining Photographic Densities by Means of Nicol Prisms*. 336
Rotation of Prisms Producing Constant Deviation by Two Refractions and One Internal Reflection, Generalization of the Problem of the. *Horace Scudder Uhler* 65

PAGE

Solar Atmosphere, Apparent Variation of Field Strength with Level in the. The General Magnetic Field of the Sun. *G. E. Hale, F. H. Seares, A. van Maanen,* and *F. Ellerman* 206

Solar Motion and the Stream-Motion from Radial Velocities and Absolute Magnitudes of Stars of Late Spectral Types, Determination of the. *Gustaf Strömberg* 7

Solar Spectrum from 6800 A to 9600 A, Photography of. *W. F. Meggers* 1

Solar Rotation at the Times of Eclipse, Desirability of Observations of the. *Ralph E. DeLury* 199

Spectra Depending upon the Type, On Changes of the Wave-Lengths of Certain Lines in Stellar. *J. Voûte* 137

Spectral Differences of the Stars, On the Cause Underlying the. *C. D. Perrine* 289

Spectroscopic Binary

Boss 46, Orbit of. *Walter S. Adams* and *Gustaf Strömberg* . . 329

42 Capricorni, On the Orbit of. *Joseph Lunt* 134

32 θ_2 Cygni, Orbit of. *J. B. Cannon* 193

Alpha Phoenicis, Orbit of. *Joseph Lunt* 196

Spectrum, The Visibility of Radiation in the Blue End of the Visible. *L. W. Hartman* 83

Spectrum from 6800 A to 9600 A, Photography of the Solar. *W. F. Meggers* 1

Spectrum of the Isotopes of Lead, Note on the. *Lester Aronberg* . 96

Spectrum of the Wolf-Rayet Star Gamma Argus, Changes in the. *C. D. Perrine* 52

Stars between Galactic Longitudes 150° and 216°, On Parallaxes and Motion of the Brighter Galactic Helium. *J. C. Kapteyn* . 104, 146, 255

Stars in the Group of the Pleiades but Not Belonging to the Physical System. *J. A. Parkhurst* 51

Stars in the Pleiades, Photo-visual Magnitudes of the. *Harriet McWilliams Parsons* 38

Stars, On the Cause Underlying the Spectral Differences of the. *C. D. Perrine* 289

Stars, Radial Velocities of 60 Southern. *Joseph Lunt* 201

Stimulus and Exposure-Time on Retinal Threshold, The Effect of Size of. *Prentice Reeves* 141

Stream-Motion from Radial Velocities and Absolute Magnitudes of Stars of Late Spectral Types, Determination of the Solar Motion and the. *Gustaf Strömberg* 7

Sun, The General Magnetic Field of the. Apparent Variation of Field-Strength with Level in the Solar Atmosphere. *G. E. Hale, F. H. Seares, A. van Maanen,* and *F. Ellerman* . . . 206

Threshold, The Effect of Size of Stimulus and Exposure-Time on Retinal. *Prentice Reeves* 141

PAGE

Variable SU Cassiopeiae, Note on the Cepheid. *Walter S. Adams* and *Harlow Shapley* 46

Velocities and Absolute Magnitudes of Stars of Late Spectral Types, Determination of the Solar Motion and the Stream-Motion from Radial. *Gustaf Strömberg* 7

Velocity and Absolute Magnitude, Radial. Comments on Professor Perrine's Article. *Walter S. Adams* and *Gustaf Strömberg* . 189

Wave-Lengths of Certain Lines in Stellar Spectra Depending upon the Type, On Changes of the. *J. Voûte* 137

Wolf-Rayet Star Gamma Argus, Changes in the Spectrum of the. *C. D. Perrine* 52

INDEX TO VOLUME XLVII

AUTHORS

PAGE

ADAMS, WALTER S., and HARLOW SHAPLEY. Note on the Cepheid Variable SU Cassiopeiae 46

ADAMS, WALTER S., and GUSTAF STRÖMBERG. The Orbit of the Spectroscopic Binary Boss 46 329

Radial Velocity and Absolute Magnitude. Comments on Professor Perrine's Article 189

ARONBERG, LESTER. Note on the Spectrum of the Isotopes of Lead . 96

The Structure of the Bismuth Line λ 4722 102

CANNON, J. B. Orbit of the Spectroscopic Binary 32 θ_2 Cygni . 193

DELURY, RALPH E. Desirability of Observations of the Solar Rotation at the Times of Eclipse 199

ELLERMAN, F., G. E. HALE, F. H. SEARES, A. VAN MAANEN. The General Magnetic Field of the Sun. Apparent Variation of Field-Strength with Level in the Solar Atmosphere . . . 206

FROST, EDWIN B. The Observatory of Poulkova 139

HALE, G. E., F. H. SEARES, A. VAN MAANEN, and F. ELLERMAN. The General Magnetic Field of the Sun. Apparent Variation of Field-Strength with Level in the Solar Atmosphere . . . 206

HARTMAN, L. W. The Visibility of Radiation in the Blue End of the Visible Spectrum 83

KAPTEYN, J. C. On Parallaxes and Motion of the Brighter Galactic Helium Stars between Galactic Longitudes 150° and 216° 104, 146, 255

LUNT, JOSEPH. On the Orbit of the Spectroscopic Binary Alpha Phoenicis 196

On the Orbit of the Spectroscopic Binary 42 Capricorni . . 134

The Radial Velocities of 60 Southern Stars 201

MEGGERS, W. F. Photography of the Solar Spectrum from 6800 A to 9600 A 1

MICHELSON, A. A. On the Correction of Optical Surfaces . . . 283

PARKHURST, J. A. Stars in the Group of the Pleiades but Not Belonging to the Physical System 51

PARSONS, HARRIET MCWILLIAMS. Photo-visual Magnitudes of the Stars in the Pleiades 38

PERRINE, C. D. On the Cause of the Distance-Velocity Equation in Stellar Motions 179

On the Cause Underlying the Spectral Differences of the Stars 289

Changes in the Spectrum of the Wolf-Rayet Star Gamma Argus 52

PAGE

PORTER, RUSSELL W. Knife-Edge Shadows. Photography as an Aid in Testing Mirrors 324

REEVES, PRENTICE. The Effect of Size of Stimulus and Exposure-Time on Retinal Threshold 141

SEARES, F. H., A. VAN MAANEN, and F. ELLERMAN, G. E. HALE. The General Magnetic Field of the Sun. Apparent Variation of Field-Strength with Level in the Solar Atmosphere . . . 206

SHAPLEY, HARLOW, and WALTER S. ADAMS. Note on the Cepheid Variable SU Cassiopeiae 46

STRÖMBERG, GUSTAF. A Determination of the Solar Motion and the Stream-Motion from Radial Velocities and Absolute Magnitudes of Stars of Late Spectral Types 7

STRÖMBERG, GUSTAF, and WALTER S. ADAMS. The Orbit of the Spectroscopic Binary Boss 46 329

UHLER, HORACE SCUDDER. Generalization of the Problem of the Rotation of Prisms Producing Constant Deviation by Two Refractions and One Internal Reflection 65

VAN MAANEN, A., G. E. HALE, F. H. SEARES, and F. ELLERMAN. The General Magnetic Field of the Sun. Apparent Variation of Field-Strength with Level in the Solar Atmosphere . . 206

VOÛTE, J. On Changes of the Wave-Lengths of Certain Lines in Stellar Spectra Depending upon the Type 137